AMENDMENT(S) TO THE SPECIFICATION

Please replace the paragraph beginning at page 2, line 5, with the following rewritten paragraph:

The above and other objects of the invention are achieved by an apparatus for indirectly sensing the temperature of a power MOS device comprising: a power MOS device having a current sense circuit for sensing the current in the power MOS device; a circuit for producing a voltage related to the drain-source voltage of the power MOS device; a comparator coupled to receive at a first input the voltage related to the drain-source voltage of the power MOS device and at a second input a voltage related to the current in the power MOS device; the comparator generating an overtemperature protection signal when a predetermined inequality between the voltages at the first and second inputs to the comparator occurs.